## PATENT COOPERATION TREATY

## **PCT**

REC'D	11	APR	2005
WIPO			PCT

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION		on of Transmittal of International kamination Report (Form PCT/IPEA/416)
International application No.	International filing date (day/m	onth/year)	Priority date (day/month/year)
PCT/US03/41207	19 December 2003 (19.12.200)		20 December 2002 (20.12.2002)
International Patent Classification (IPC)	or national classification and IPC		
IPC(7): G06F 17/00 and US Cl.: 701/19,	117; 705/8; 246/2R, 167R		
Applicant			
UNION SWITCH & SIGNAL, INC.			
This international preliminary examination report has been prepared by this International Preliminary     Examining Authority and is transmitted to the applicant according to Article 36.			
2. This REPORT consists of	a total of sheets, including	g this cover sheet	• •
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).  These annexes consist of a total ofsheets.			
3. This report contains indica	tions relating to the following	items:	
I Basis of the repo	I Basis of the report		
II Priority			
	ent of report with regard to no	velty, inventive	step and industrial applicability
K-7	nent under Article 35(2) with	regard to novelty	, inventive step or industrial
	ations and explanations suppo		
VI Certain documen	nts cited		
VII Certain defects in the international application			
VIII Certain observations on the international application			
Date of submission of the demand		a of completion	o£thia assart
Date of submission of the demand	Da	te of completion	or this report
25 June 2004 (25.06.2004)		March 2005 (24.03	.2005)
Name and mailing address of the IPEA/US		thorized office,	2
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents		ry Chin	Surun-
P.O. Box 1450 Alexandria, Virginia 22313-1450	//	ephone No. (703)	
Facsimile No. (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-3230 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-320 (703) 305-3			



international	application	No.

PCT/US03/41207

I.	Basi	s of the report
1.	With	regard to the elements of the international application:*
	$\boxtimes$	the international application as originally filed.
	$\boxtimes$	the description:
		pages <u>1-47</u> as originally filed pages <u>NONE</u> , filed with the demand
		pages NONE , filed with the letter of
	$\boxtimes$	the claims:
		pages <u>48-70</u> , as originally filed
		pages NONE, as amended (together with any statement) under Article 19 pages NONE, filed with the demand
		pages NONE , filed with the letter of
	$\boxtimes$	the drawings:
		pages 1-9 as originally filed
		pages NONE , filed with the demand pages NONE , filed with the letter of
		the sequence listing part of the description: pages NONE, as originally filed
		pages NONE, filed with the demand
•	337:41	pages NONE , filed with the letter of
2.	lang	regard to the language, all the elements marked above were available or furnished to this Authority in the large in which the international application was filed, unless otherwise indicated under this item.
	Thes	e elements were available or furnished to this Authority in the following language which is:
		the language of a translation furnished for the purposes of international search (under Rule23.1(b)).
		the language of publication of the international application (under Rule 48.3(b)).
	Ш	the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).
3.	With	regard to any nucleotide and/or amino acid sequence disclosed in the international application, the national preliminary examination was carried out on the basis of the sequence listing:
	$\square$	contained in the international application in printed form.
	Щ	filed together with the international application in computer readable form.
	$\square$	furnished subsequently to this Authority in written form.
	Щ	furnished subsequently to this Authority in computer readable form.
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.
4.		The amendments have resulted in the cancellation of:
		the description, pages NONE
		the claims, Nos. NONE
		the drawings, sheets/ <del>fig</del> NONE
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
ınıs	Replac. repor	ement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in t as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17). placement sheet containing such amendments must be referred to under item 1 and annexed to this report.



International application No. PCT/US03/41207

V. Reasoned statement under Rule 66.2(a)( citations and explanations supporting su	(ii) with regard to novelty, inventive ste	p or industrial applicability;
1. STATEMENT		·
Novelty (N)	Claims <u>1-94</u>	YES
	Claims NONE	NO
Inventive Step (IS)	Claims 1-94	YES
	Claims NONE	YES
Industrial Applicability (IA)	Claims 1-94	YES
	Claims NONE	NO
(2) determining a second planning boundary by upda generating a second plurality of traffic plans, (3) sele plan and (4) outputting the second optimized traffic plans are traffic plans.	PCIING AND At the tiret and cocond -limitim Ca	





## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT/US03/41207

VIII.	Certain observations on the international application	

The following observations on the clarity of the claims, description, and drawings or on the questions whether the claims are fully supported by the description, are made: Claim 87 is objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because claim 87 is indefinite for the following reason(s): On line 2, "said apparatus" lacks proper antecedent basis and should be changed to "said system" in order to rectify the problem.

Form PCT/IPEA/409 (Box VIII) (July 1998)